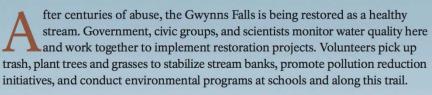
# Baltimore and Green Infrastructure

Guy Hager



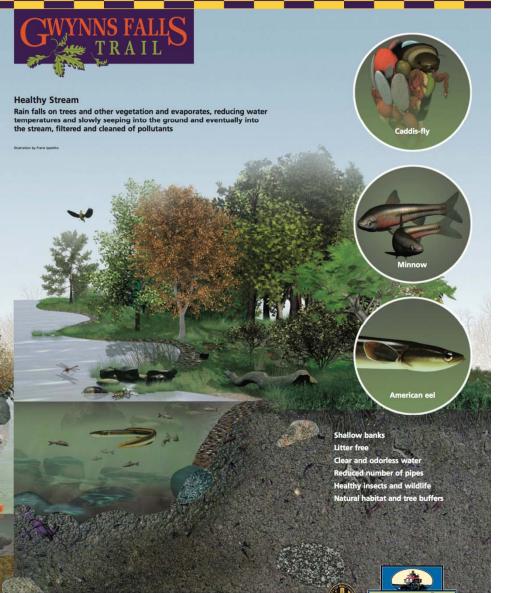
#### Cleaning Up Our Waters



Major storms have devastating effects on the waterway. Since the colonial era, 70 percent of the watershed's forest has disappeared and been replaced by hard, impervious surfaces such as roads and parking lots. The Gwynns Falls' tributaries have been buried in storm drains. As a result, the land cannot absorb the rainfall, and runoff scours the streambeds of the Gwynns Falls.

#### **Unhealthy Stream**

Rain runs off roofs, roads, and parking lots in such volume and velocity that it scours and erodes streambeds and banks.



Sediment and nutrient pollution Exposed and leaking sewer pipes Storm water outfall pipes Wildlife buried in silt

Restoring Water Quality

## Schoolyard Restoration

22 acres of new green space city-wide





New Rain
Garden at
Bluford Drew
Jamison STEM
School

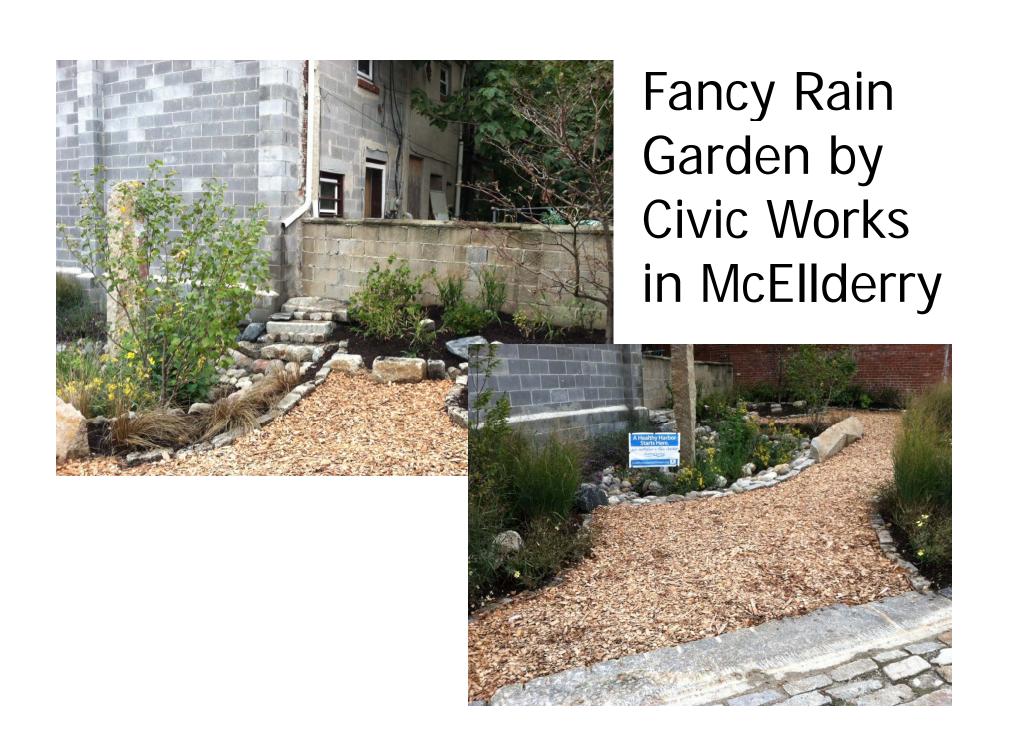
Old splash park converted to rain garden with trees and benches installed; other plants this

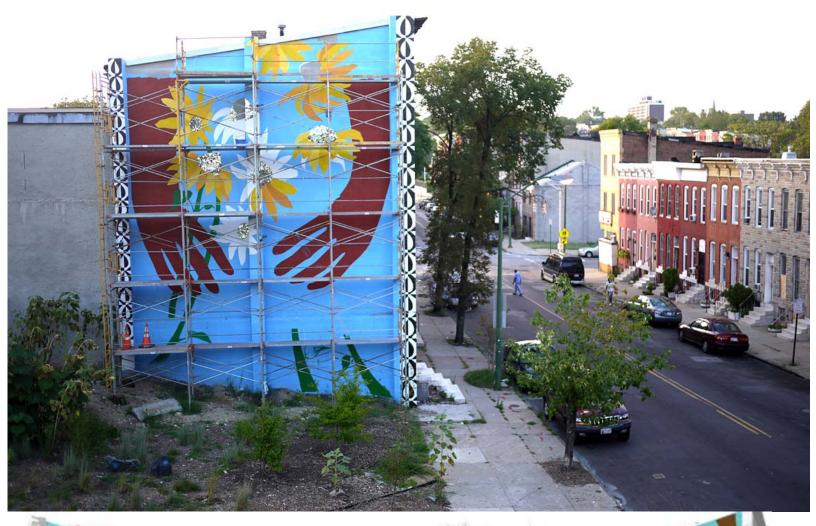


#### 1300 W. Baltimore Street

On the right is a City-owned vacant lot covered with asphalt and above is a lot with drainage from alley on side of









#### Greening Sarah's Hope in Sandtown



# Gilmor Home Asphalt Ct Restoration

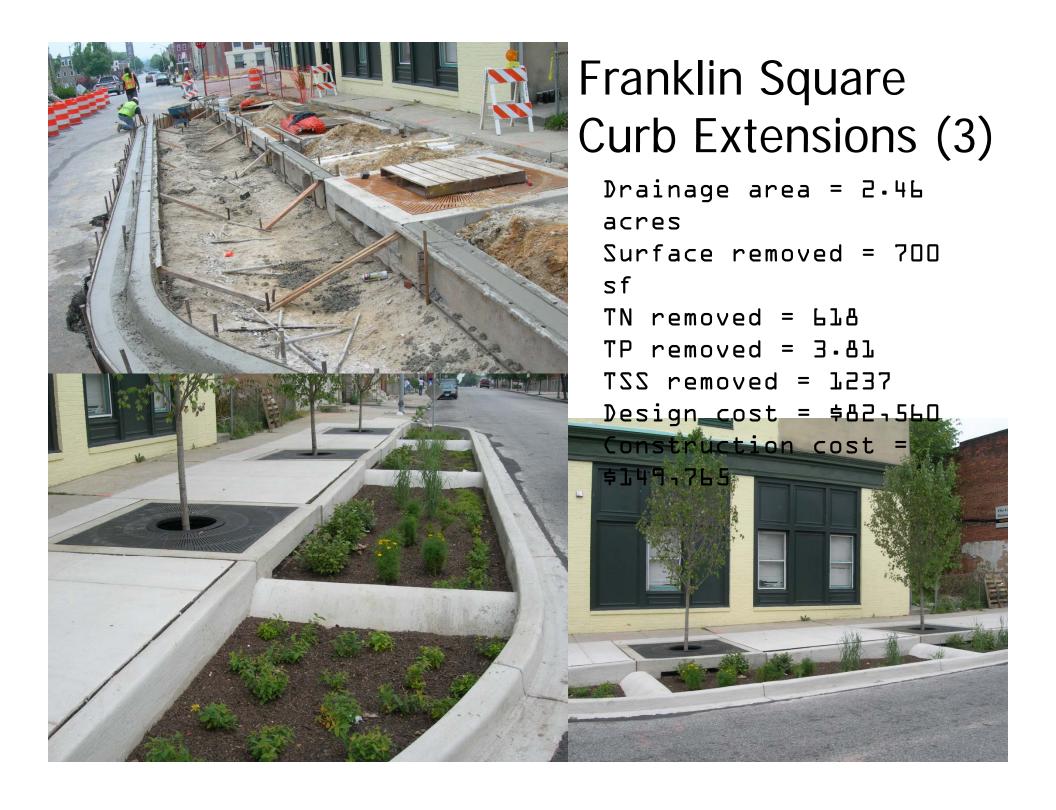


#### Curb and sidewalk Inlets

Three curb extensions in Franklin Square by Baltimore City DPW



Blue Water
Baltimore
Cost: \$2500





#### Two Curb Extensions - N Potomac

#### & E Fayette

Status: completed fall 2012

Cost: \$74,000 (CBT \$67,000 and Trust

\$7500)

Scope: removed 1728 sf of sidewalk and roadway to create 2 bio-swales



## Curb Extension in Highlandtown



Baltimore Medical Systems at 3703 Fleet Street

This curb extension was constructed in 2009 for stormwater management when the sidewalk was rebuilt as a part of the new LEED Gold building by Chesapeake Real Estate Group, LLC.



6 curb extension





Highlandtown Sidewalk Removal for Tree Yards

